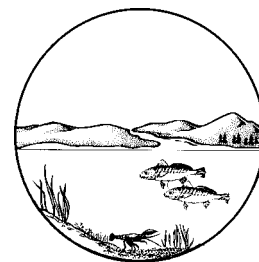


US EPA ARCHIVE DOCUMENT

# National Sediment Bioaccumulation Conference



September 11-13, 1996  
Hyatt Regency  
Bethesda, Maryland



## FINAL AGENDA

Sponsored by:  
Office of Water/Office of Science and Technology  
Office of Research and Development

### Wednesday, September 11

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7:30-8:30 **Registration**

8:30-8:45 **Welcome and Introduction**  
*Dr. Elizabeth Southerland and  
Dr. Thomas Armitage*  
Office of Science and Technology  
U.S. Environmental Protection Agency

#### BIOACCUMULATION OVERVIEW AND APPROACHES

8:45-9:15 **Contaminated Sediments: State of the Science and Future Research Directions**  
*Dr. Gilman D. Veith, Associate Director for Ecology*  
National Health and Environmental Effects Research Laboratory  
Office of Research and Development  
U.S. Environmental Protection Agency

#### Field and Laboratory Methods for Measuring Bioaccumulation

*Moderator: Dr. Peter Chapman*  
EVS Environmental Consultants, Ltd.

9:15-9:40 **Methods for Assessing Sediment Bioaccumulation in Marine/Estuarine Benthic Organisms**  
*Dr. Henry Lee*  
Office of Research and Development  
U.S. Environmental Protection Agency

9:40-10:05 **Methods for Assessing Bioaccumulation of Sediment-Associated Contaminants with Freshwater Invertebrates**  
*Dr. Christopher Ingersoll*  
Environmental Contaminants Research Center  
U.S. Geological Survey

10:05-10:20 Break

10:20-10:45 **Kinetic Models for Assessing Bioaccumulation**  
*Dr. Peter Landrum*  
Great Lakes Environmental Research Laboratory  
National Oceanic and Atmospheric Administration

10:45-11:15 **Discussion/Question and Answer Session**

11:15-12:30 Lunch

#### Interpretation and Applications of Bioaccumulation Results

*Moderator: Dr. Richard Pruell*  
Office of Research and Development  
U.S. Environmental Protection Agency

12:30-12:55 **Reference Sediment Approach for Determining Sediment Contamination**  
*Mr. Norman Rubinstein*  
Office of Research and Development  
U.S. Environmental Protection Agency

12:55-1:20 **Development of Tissue Residue Threshold Values**  
*Dr. David Mount*  
Office of Research and Development  
U.S. Environmental Protection Agency

1:20-1:45 **Use of Tissue Residue Data in Exposure and Effects Assessments for Aquatic Organisms**  
*Mr. L. Jay Field*  
National Ocean Service  
National Oceanic and Atmospheric Administration



# Final Agenda

1:45-2:10 **Comments on the Significance and Use of Tissue Residues in Sediment Toxicology and Risk Assessment**  
*Dr. Lynn McCarty*  
LS McCarty Scientific Research & Consulting

2:10-2:35 **Quantification of Ecological Risks to Aquatic Biota from Bioaccumulated Chemicals**  
*Mr. Burt Shephard*  
URS Greiner, Inc.

2:35-3:05 **Discussion/Question and Answer Session**

3:05-3:25 Break

## Modeling Bioavailability of Sediment Contaminants

*Moderator: Mr. Nelson Thomas*  
Office of Research and Development  
U.S. Environmental Protection Agency

3:25-3:50 **Equilibrium Partitioning and Organic Carbon Normalization**  
*Dr. Dominic Di Toro*  
HydroQual, Inc.

3:50-4:15 **Estimating Bioaccumulation Potential in Dredged Sediment Regulation**  
*Dr. Victor McFarland*  
Waterways Experiment Station  
U.S. Army Corps of Engineers

4:15-4:40 **Development of Bioaccumulation Factors for Protection of Fish and Wildlife in the Great Lakes**  
*Dr. Philip Cook*  
Office of Research and Development  
U.S. Environmental Protection Agency

4:40-5:00 **From Modeling to Criteria: Integrated Approach to Criteria Development**  
*Ms. Mary Reiley*  
Office of Science and Technology  
U.S. Environmental Protection Agency

5:00-5:30 **Discussion/Question and Answer Session**

6:00-7:00 **Welcome Reception**

## Thursday, September 12

### Food Chain Models and Bioenergetics

*Moderator: Dr. Lawrence Burkhard*  
Office of Research and Development  
U.S. Environmental Protection Agency

8:30-9:00 **Food Chain Models for Predicting Bioaccumulation**  
*Dr. Frank Gobas*  
Simon Fraser University

9:00-9:30 **Use of Food Web Models to Evaluate Bioaccumulation Data**  
*Dr. John Connolly*  
HydroQual, Inc.

9:30-10:00 **Bioaccumulation Modeling of PCBs in the Hudson Estuary: A Review and Update**  
*Dr. Robert Thomann*  
Manhattan College

10:00-10:30 **Discussion/Question and Answer Session**

10:30-10:45 Break

### BIOACCUMULATION AND RISK ASSESSMENT

10:45-11:15 **Risk Assessment Overview**  
*Dr. Dorothy Patton*  
Office of Research and Development  
U.S. Environmental Protection Agency

### Human Health-Based Risk Assessment

*Moderator: Dr. Marc Tuchman*  
Great Lakes National Program Office  
U.S. Environmental Protection Agency

11:15-11:45 **Methodology for Assessing Human Health-Based Risks**  
*Dr. Judy Crane*  
Minnesota Pollution Control Agency

11:45-1:00 Lunch

# Final Agenda

## Case Studies:

1:00-1:45 **Bioaccumulation Models and Applications: Setting Sediment Cleanup Goals in the Great Lakes**  
*Ms. Amy Pelka*  
Region 5  
U.S. Environmental Protection Agency

1:45-2:15 **Use of Human Health- and Ecological-Based Goals in Developing a Whole River Sediment Strategy: Fox River, WI**  
*Mr. Robert Paulson*  
Wisconsin Department of Natural Resources

2:15-2:45 **Development of Health-Based Sediment Criteria for Puget Sound**  
*Ms. Laura Weiss*  
Washington Department of Ecology

2:45-3:15 **Development of Bioaccumulation Guidance for Dredged Material Evaluations in EPA Region 2**  
*Mr. Alex Lechich*  
Region 2  
U.S. Environmental Protection Agency

3:15-3:45 **Discussion/Question and Answer Session**

3:45-4:00 Break

## Ecological-Based Risk Assessment

*Moderator: Dr. James Andreasen*  
Office of Research and Development  
U.S. Environmental Protection Agency

4:00-4:30 **Use of Bioaccumulation Data in Aquatic Life Risk Assessment**  
*Dr. Wayne Munns*  
Office of Research and Development  
U.S. Environmental Protection Agency

4:30-5:00 **Wildlife Risk Assessment**  
*Dr. David Charters*  
Office of Solid Waste and Emergency Response  
U.S. Environmental Protection Agency

5:00-5:30 **Discussion/Question and Answer Session**

## Friday, September 13

### BIOACCUMULATION RESULTS AND DECISION-MAKING

#### Integrating Bioaccumulation Results into EPA's Decision-Making Process

*Moderator: Dr. Elizabeth Southerland*  
Office of Science and Technology  
U.S. Environmental Protection Agency

8:30-8:40 **Opening Remarks**  
*Dr. Elizabeth Southerland*  
Office of Science and Technology  
U.S. Environmental Protection Agency

8:40-9:00 **Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment: Status and Needs**  
*Mr. Michael Kravitz*  
Office of Science and Technology  
U.S. Environmental Protection Agency

#### 9:00-10:30 Panel Presentations

- Superfund Program  
*Dr. Lawrence Zaragoza*
- NPDES Program  
*Mr. James Pendergast*
- Office of Pollution Prevention and Toxics  
*Mr. Thomas Murray*  
*Dr. Maurice Zeeman*
- Dredged Material Program  
*Mr. Craig Vogt*  
*Mr. Mario Del Vicario*

10:30-10:45 Break

#### 10:45-12:00 Panel Discussion

- Common Elements Among Programs
- Barriers to Decision-Making
- Recommendations

12:00-12:30 **Future Needs/Conference Wrap Up**

